

ARG54875 anti-PGK1 antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PGK1
Tested Reactivity	Hu, Ms
Predict Reactivity	Mk, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PGK1
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 117-145 (Center) of Human PGK1.
Conjugation	Un-conjugated
Alternate Names	EC 2.7.2.3; Primer recognition protein 2; PGKA; PRP 2; Phosphoglycerate kinase 1; MIG10; Cell migration-inducing gene 10 protein; HEL-S-68p

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	ICC/IF	1:10 - 1:50
	IHC-P	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

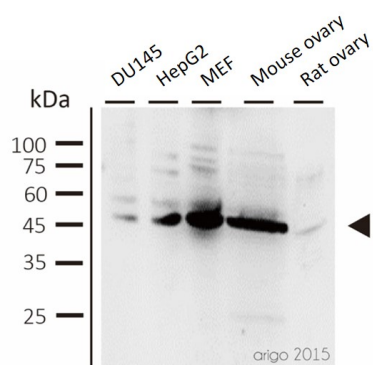
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

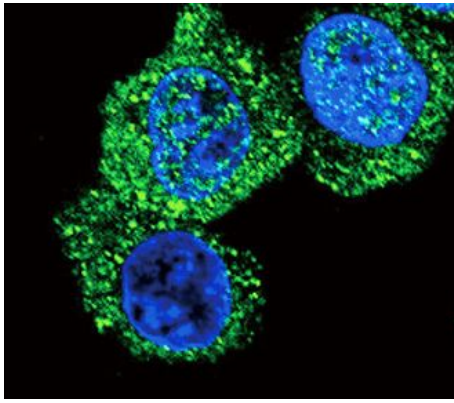
Database links	GeneID: 18655 Mouse GeneID: 5230 Human Swiss-port # P00558 Human Swiss-port # P09411 Mouse
Gene Symbol	PGK1
Gene Full Name	phosphoglycerate kinase 1
Background	The protein encoded by this gene is a glycolytic enzyme that catalyzes the conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate. The encoded protein may also act as a cofactor for polymerase alpha. Additionally, this protein is secreted by tumor cells where it participates in angiogenesis by functioning to reduce disulfide bonds in the serine protease, plasmin, which consequently leads to the release of the tumor blood vessel inhibitor angiostatin. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Deficiency of the enzyme is associated with a wide range of clinical phenotypes hemolytic anemia and neurological impairment. Pseudogenes of this gene have been defined on chromosomes 19, 21 and the X chromosome. [provided by RefSeq, Jan 2014]
Function	In addition to its role as a glycolytic enzyme, it seems that PGK-1 acts as a polymerase alpha cofactor protein (primer recognition protein). [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	45 kDa
Cellular Localization	Cytoplasm.

Images



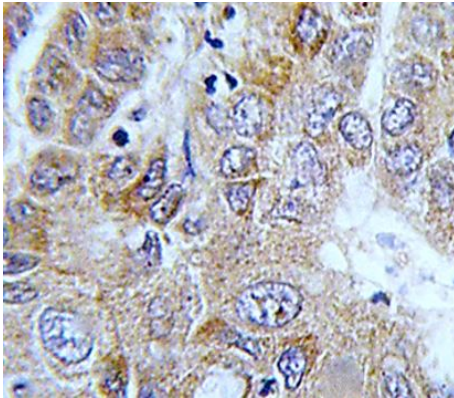
ARG54875 anti-PGK1 antibody WB image

Western blot: 30 µg of DU145, HepG2, MEF, Mouse ovary and Rat ovary lysates stained with ARG54875 anti-PGK1 antibody at 1:500 dilution.



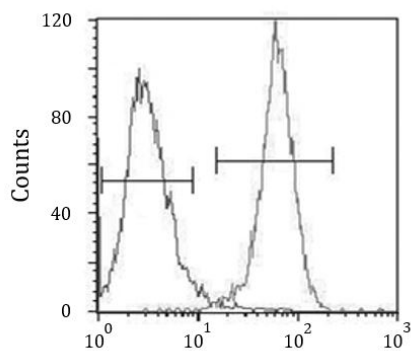
ARG54875 anti-PGK1 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG54875 anti-PGK1 antibody (green). DAPI (blue) for nuclear staining.



ARG54875 anti-PGK1 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human hepatocarcinoma tissue stained with ARG54875 anti-PGK1 antibody.



ARG54875 anti-PGK1 antibody FACS image

Flow Cytometry: HeLa cells stained with ARG54875 anti-PGK1 antibody (right histogram) or without primary antibody control (left histogram), followed by incubation with FITC labelled secondary antibody.